

## Datos suplementarios

### Secuencias codificantes de *INCENP* y *PLK1*

>NM\_001040694.2:165-2921 Homo sapiens inner centromere protein (*INCENP*), transcript variant 1, mRNA  
ATGGGGACGACGGCCCCAGGGCCATTACCTGCTGGAGCTATGTGACCAGAAGCTCATGGAGTTTCTCT  
GCAACATGGATAATAAGGACTTGGTGTGGCTTGAGGAAATCCAAGAGGAGGCCGAGCGCATGTTCCACCAG  
AGAATTCAGCAAAGAGCCAGAGCTGATGCCAAAAACACCTTCTCAGAAGAACCAGGAAAGAAGAGACGG  
ATTTCTTATGTTCCAGGATGAAAACAGAGATCCCATCAGGAGAAGGTTATCCCGCAGAAAAGTCTCGGAGCA  
GCCAGCTGAGCTCCCGACGCCTCCGACGCAAGGACAGTGTAGAGAAGCTGGCTACAGTGGTCGGGGAGAA  
CGGCTCCGTCTGCGGCGTGTGACCCGTGCTGCGGCTGCAGCTGCCGCGGCTACCATGGCATTGGCTGCA  
CCTTCTTCAACCACCCCTGAGTCTCCACGATGCTGACTAAGAAGCCCGAGGATAACCACACCCAGTGCC  
AGCTGGTGCCTGTGGTGGAGATCGGCATCAGTGAGCGCCAGAATGCTGAGCAGCATGTCACCCAGCTCAT  
GTCCACCGAGCCTCTGCCCGCACTCTGTCCCGACTCCAGCTTCCAGCCACAGCTCCAACCTCCCAGGGC  
ATCCCGACATCAGATGAGGAATCAACACCTAAGAAGTCAAGGCCAGGATACTGGAGTCCATCACAGTGA  
GCTCCCTGATGGCTACACCCAGGACCCCAAGGGTCAAGGGTTCGGGACGGGGCGGTCTGCGTCTAAGCT  
CAGGATTGCGCAGGTCTCCCCTGGCCACGGGACTCGCCAGCCTTTCCAGATTCTCCATGGCGGGAGCGG  
GTGCTGGCTCCCATCTGCCGGATAACTTCTCCACGCCACGGGCTCTCGCACGGACTCTCAATCGGTGC  
GGCACAGCCCGATGCCCCGTCTTCCCCGAGTCCCCAAGTCTTAGCCAGAAGTACTCTGTGGTGGCCAA  
ACAGGAAAGTGTTCGCGAGGGCGAGCAGAAGCTTCCCAAGAAGACTGCCGAAGAGCCAGCTGCCTCT  
GGCCGCATCATCTGTACAGTTACCTGGAGAGGCTCCTGAATGTTGAGGTGCCCCAGAAAAGTTGGTCTG  
AGCAGAAGGAACCCCCGAGGAGGCTGAGCCTGTGGCGGCAGCTGAGCCAGAGGTCCCTGAGAACAAATGG  
AAATAACTCGTGGCCCAACAATGACACGGAGATTGCCAACAGCACACCCAAACCCGAAGCCTGCAGCCAGC  
AGCCCGAAACACCTCTGCAGGGCAGCAAGAGGCCAAGACGGACCAAGCAGATGGACCCAGAGAGCCAC  
CGCAGAGTGCCAGGAGGAAGCGCAGCTACAAGCAGGCCGTGAGTGAGCTGGACGAGGAGCAGCACCTGGA  
GGATGAGGAGCTGCCACCCCGAGGCAAGACCCCTTCTCACCTGCCAGCCAGCAAGGTGGTACGG  
CCCCTCCGGACCTTTCTGCACACAGTGCAGAGGAACAGATGCTCATGACCCCGACCTCAGCCCCACGCA  
GCGTCTGAAGTCTTTTATTAAGCGCAACTCCCCTGCGCATGGACCCCAAGTGCAGCTTCTGTCGAGAA  
GGAGCGGCAGCGCCTGGAGAATCTGCGGCGGAAGGAGGAGGCCGAGCAGCTGCGCAGGCAGAAGGTGGAG  
GAGGACAAGCGGCGGCGGCTGGAGGAGGTGAAGCTGAAGCGTGAGGAACGCCTCCGCAAGGTGCTGCAGG  
CCCGCAGCGGGTGGAGCAGATGAAGGAGGAGAAGAAGAAGCAGATTGAGCAGAAGTTTGCTCAGATCGA  
CGAGAAGACTGAGAAGGCCAAGGAGGAGCGGCTGGCAGAGGAGAAGGCCAAGAAAAAGCGGCGGCAAG  
AAGATGGAGGAGGTGGAAGCACGCAGGAAGCAGGAAGAGGAGGCACGTAGGCTCAGGTGGCTGCAGCAGG  
AGGAGGAAGAGCGGCGCACCAAGAGCTGCTGCAGAAGAAGAAGGAAGAGGAGCAGGAGCGGCTGCCGAA  
GGCGGCGGAGGCTAAGCGGCTGGCAGAGCAGCGGGAGCAGGAGCGGCGGAGCAGGAGCGGCGCAGCAG  
GAGCGGCGCAGCAGGAGCGGCGGAGCAGGAGCGGCGCAGCAGGAGCGACAGCTGGCAGAGCAGGAGC  
GTCGGCGGGAGCAGGAGCGGCTCCAGGCCGAGAGGGAGCTGCAGGAGCGGGAGAAGGCCCTGCGGCTGCA  
GAAGGAGCAGCTGCAGAGGGAATGGAGGAGAAGAAGAAGAAGGAAGAGCAGCAGCGTCTGGCTGAGCGG  
CAGCTGCAGGAGGAGCAAGAGAAGAAAGCCAAGGAGGCAGCAGGGGCCAGCAAGGCCCTGAATGTGACTG  
TGGACGTGCAGTCTCCAGCTGTACCTCATATCAGATGACTCCGCAAGGGCACAGGGCCCTCCCAAGAT  
CAACCCAGATAACTACGGGATGGATCTGAATAGCGACTCCACCGATGATGAGGCCCATCCCCGGAAG  
CCCATCCCACCTGGGCCCGAGGCACCCCGCTCAGCCAGGCTATCATTACCAGTACTACCACCCACCGA  
ACCTTCTGGAGCTTTTGAACCACTTCTCCACTGGACTTGGAGGATATCTTCAAGAAGAGCAAGCCCCG  
CTATCAAGCGCACAGCTCTGCTGTCTGGAATCACCGCCCTGCAGGGCGCCAGGGTCCCCAGCAGC  
CTGGCCTACAGCCTGAAGAAGCACTGA

**Figura 1:** Secuencia codificante del gen *INCENP* para la especie *Homo sapiens*.

>NM\_001369356.1:163-2805 *Mus musculus* inner centromere protein (Incenp), transcript variant 1, mRNA  
ATGGGGACCACAGCCCCAGGCCTATTTGCCCTTCTGGATCTATGTGACCAGAACTCCTGGACTTTGTCT  
GCAATGTGGACAACAAGGACTTCATGTGGCTCAAGGAGATTGAGGAGGAGGCTGAGCGCATGTTTATCAG  
AGAATTCAGCAATGAGCCAGAGCTGATGCCAAAACCTTCTCAGAAAAACCGTCGGGAAGAAGAGGCGG  
GTGTCTAACATTGAGGATGAAAACAGAGATCCCGTGAGGAAAAGGTTATCCCGCAGAAAGTCTCGGAGCA  
GTCAGGTGGGTACCCGGCACCTCCGAGCAAGCCGTTACTATTGTTGAGGAGAATGGCTTCCCTGTGTT  
GCAGCGGATAACCCGGGCCACAGCTGCAGCAGCGGCAGCAGCAGCGGCAGCGTCTGTGGCATCAGCTTCT  
TCCTCTTCCACTGCTGGGTCTCCACAGTGTGACCAAGAAAGCAGTGGTGGAGATAAGCACTAGTGAAC  
GACTGAGTGCAGAATACTACTAAGCTCAAAGGTAGCCTTCCCTCCATCTCCAGTTTCCCAAGGCAC  
CCTGACATCAGAGGAGGAACTAACACCCAAGAAATCAGAGGCTGGAAAGCTGGACTCTGTACAGTGAAC  
TCCCTCAAGGCTACCCCTCAGAGCCCCAAGAACCAGGGGTTGGGGAAGGACGTTCTGTTTCCAAGCTCA  
AGATTGCTCGGGCCTCCTGGGGGCTGCAGGACTCTCTGGCTTACAGACTCACCATGGCAAGAGCGGGT  
GCTTTCTCCTATCCTGCTGAATAACATCTTGCCACAACAGCCAAGAGCCCTCTTGGGAATATTGCGTCA  
GTGCGGGAAGCCTGATTTCCAGGATTTCCCAAGTGCCACTAGCCTCGAAGTATAATTTGGTGGCCAAAC  
AAGAAAATGGCAGTGCAGATCAAGCAGAAGGATTGCCAAGAAGGCTGGCAAAGAGCCAGAGGCCTCTGC  
TCGAATCATTTGTACAGTTACCTGGAGAGGCTCCTGAATGTTGAAGTGCCTCAGAATGTTGGCCTGGAG  
CAGGAGCCTGTGAGGTGGCCGAACCTGAGGAGGAGAAGAGGAGCAAGAGGTCTCCAAGAACAGTGGGT  
GTCCCTCAAACCCCGCAGTGCCACCAAGATTGCGATTAGTACGCCACCTCGAAGCCTGCGGCCGCTGG  
TCAGACAACAACCTGTTGAAGAGCAAGAAGCTGAGCTTGACCAAACAGATGGACACAGAGAACCACCCAG  
AGTGTGACAGGAGAAACGAGTTACAACACAGGCAATAAGTGAACCGGATGAGGAGCAACTGGAAGATGAAG  
AACTGCAGCCCTGCCAGAATAAGACCCCTTCCCACCTGTCCAGCCAACAAGGTGGTACGGCCCTCCG  
GACTTTCCTGCACACAGTGCAGAAGAACCAGATGCTCATGACCCCCACTGGCCTCCCGCAGCAGTGTC  
ATGAAGTCTTTATTAACGCAACTCCGCTTCGTGTGGACCCTAAGTGCAGCTTTGTTGAGAAGGAGC  
GCCAGCGCTAGAGAGCCTGCGACGGAAGGAGGAGGCGGAGCAGCGGCGCAGACAGAAGGTAGAGGAAGA  
CAAGCGGCGGCGACTGGAGGAGGTGAAGCTGAAGCGTGAAGAGCGCTCCGCAAGGTGTTGCAGGCCCGT  
GAGAGGTGGAACAGATGAAGGAGGAAAAGAAGAGCAGATTGAGCAGAAGTTTGTCTAGATTGATGAGA  
AGACAGAAAAGGCTAAGGAGGAGGTCTGGCAGAGAAGGCAAGAAGAAGGCAACTGCCAAGAAGATGGA  
AGAGGTAGAGGCACGAAGGAAGCAGGAGGAGGAGGCACGCAGGCTCAGGTGGCTCCAACAGGAGGAAGAG  
GAGCGGCGCATCAAGAAATGCTACAACGGAAGAAGGAGGAAGAACAGGAGCGCGCAAGCAGCTGAGG  
CCAGGCGCTGGCAGAACAGCGGGAGCAAGAGAGGCGAAGGGAGCAGGAGCGGCGGAGCAGGAGCGGAG  
GGAACAGGAGCGGAGGGAACAGGAACGGAAGGAGCAGGAGCGGCGGAGCAGGAGCAGGAGCGTCTTCGG  
GCCAAGAGGAGATGCAGGAGAGAGAGAAAGCCTGCGACTCCAAAAGGAACGACTTCAGAAGGAACTGG  
AGGAGAAGAAGAGGAAGGAAGAGCAACAGCGCCTGGCTGAGCAGCAACTGCAGGAGGAGCAGGCAAAGAA  
AGCTAAGGAGGTGGCAGCAGCCAGGAAAGTCTTGAACATGACTGTGGATGTGCAGTCTCCTGTTTGTACC  
TCATATCAAATGACTCCACAAGGACCCAAATCCATCCCCAAGATCAGCGTAGACGATTATGGGATGGACC  
TAAATAGTGATGACTCCACAGATGATGAGTCCCACCCCGGAAACCATCCCTTCTGGGCCAAAGGCAC  
CCAACCTAGCCAGGCCATTGTCCACAGTACTACCACCTCCAAACATTTAGAGCTCTTCGGATCTATT  
CTCCACTGGACTTGAGGACATCTTTAAGAAGAGGAAGACTCGCTACCACAAGCGCACTAGCTCTGCTG  
TTTGGAACTCACCACCCTGAAAGCCACCATGGTCCCAGCAGTGGGGACTAG

**Figura 2:** Secuencia codificante del gen *INCENP* para la especie *Mus musculus*.

>NM\_005030.6:45-1856 Homo sapiens polo like kinase 1 (PLK1), mRNA  
 ATGAGTGTGCAGTGACTGCAGGGAAGCTGGCACGGGCACCGGCCGACCCTGGGAAAGCCGGGGTCCCCG  
 GAGTTGCAGCTCCCGAGCTCCGGCGGCGGCTCCACCGCGAAAGAGATCCCGAGGTCCTAGTGGACCC  
 ACGCAGCCGGCGGCGCTATGTGCGGGGCGCTTTTTGGGCAAGGGCGGCTTTGCCAAGTGTTCGAGATC  
 TCGGACGCGGACACCAAGGAGGTGTTTCGCGGGCAAGATTGTGCCTAAGTCTCTGCTGCTCAAGCCGACC  
 AGAGGGAGAAGATGTCCATGGAAATATCCATTACCCGACGCTCGCCACCAGCACGTCTGATGATCCCA  
 CGGCTTTTTCGAGGACAACGACTTCGTGTTCTGGTGTGGAGCTCTGCCGCGGAGGTCTCTCTGGAG  
 CTGCACAAGAGGAGGAAAGCCCTGACTGAGCCTGAGGCCGATACTACCTACGGCAAATTTGTGCTGGCT  
 GCCAGTACCTGCACCGAAACCGAGTTATTATCAGAGACCTCAAGCTGGGCAACCTTTTTCTGAATGAAGA  
 TCTGGAGGTGAAAATAGGGGATTTTGGACTGGCAACAAAGTCAATATGACGGGGAGAGGAAGAAGACC  
 CTGTGTGGGACTCCTAATTACATAGCTCCCGAGGTGCTGAGCAAGAAAGGGCACAGTTTCGAGGTGGATG  
 TGTGGTCCATTGGGTGTATCATGTATACCTTGTAGTGGGCAAACCACCTTTTGGAGACTTCTTGCCTAAA  
 AGAGACCTACCTCCGGATCAAGAAGAATGAATACAGTATCCCAAGCACATCAACCCCGTGGCCGCTCC  
 CTCATCCAGAAGATGCTTCAGACAGATCCCACTGCCCGCCCAACCATTAACGAGCTGCTTAATGACGAGT  
 TCTTTACTTCTGGCTATATCCCTGCCCGTCTCCCATCACCTGCTGACCATTCCACCAAGGTTTTCGAT  
 TGCTCCCAGCAGCCTGGACCCAGCAACCGGAAGCCCTCACAGTCTCAATAAAGGCTTGAGAAACCC  
 CTGCCTGAGCGTCCCCGGGAAAAGAAGAACAGTGGTTCGAGAGACAGGTGAGGTGGTTCGACTGCCACC  
 TCAGTGACATGCTGCAGCAGCTGCACAGTGTCAATGCCTCCAAGCCCTCGGAGCGTGGGCTGGTCAGGCA  
 AGAGGAGGCTGAGGATCCTGCCTGCATCCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGACAAAG  
 TACGGCTTTGGGTATCAGCTCTGTGATAACAGCGTGGGGTCTCTTCAATGACTCAACCGCTCATCC  
 TCTACAATGATGGTGCAGCCTGCAGTACATAGAGCGTGCAGGCACTGAGTCTACCTACCTCAGCTGAGTTC  
 CCATCCCAACTCCTTGATGAAGAAGATCACCCCTCTTAATATTTCCGCAATTACATGAGCGAGCACTTG  
 CTGAAGGAGGTGCCAACATCACGCCGCGGAAGGTGATGAGCTCGCCCGGCTGCCCTACCTACGGACCT  
 GGTTCGCGACCCGAGCGCCATCATCTGCACCTCAGCAACGGCAGCGTGCAGATCAACTTCTCCAGGA  
 TCACACCAAGCTCATCTTGTGCCCACTGATGGCAGCCGTGACCTACATCGACGAGAAGCGGGACTCCGC  
 ACATACCGCTGAGTCTCTGGAGGAGTACGGCTGCTGCAAGGAGCTGGCCAGCCGGCTCCGCTACGCC  
 GCACTATGGTGGACAAGCTGCTGAGCTCACGCTCGGCCAGCAACCGTCTCAAGGCCTCTAA

**Figura 3:** Secuencia codificante del gen *PLK1* para la especie *Homo sapiens*.

>NM\_011121.4:109-1920 Mus musculus polo like kinase 1 (Plk1), mRNA  
 ATGAATGCAGCGGCCAAAGCTGGAAAGCTGGCTCGAGCACCAGCCGACCCTGGGAAAGTGGGGTCCCG  
 GAGATGCAGTTCCTGGTGCCTCAGTGGCCGCCCCGCTGGCGAAAGAAATTCGGAGGTCCTAGTGGACCC  
 ACGCAGCCGGCGGCGATGTACGGGGGCGCTTCTGGGTAAGGAGGCTTCGCCAAATGCTTCGAGATC  
 TCAGACGCGACACAAAAGAGGTGTTTCGACGGCAAGATCGTGCCTAAGTCTTTGCTGCTCAAGCCCCACC  
 AGAAGGAGAAGATGTCTATGGAGATCTCAATTCACCGCAGCCTAGCACACCAACACGTCTGATGCTTCCA  
 TGACTTTTTTGGAGACAGCGACTTTGTATTTGAGTGTGGAGCTCTGTGCGAGGAGTCCCTCCTGGGAG  
 CTGCACAAGAGGAGGAAAGGCACTGACCGAGCTGAGGCCCGCTACTACTCGGACAGATATTCGGGCT  
 GCCAGTACCTGCACCGCAATCAGGTCATTACAGGGACCTCAAGCTGGGCAACCTTCTCCTGAACGAGGA  
 TCTGGAGGTGAAAATAGGGGATTTTGGCTTGGCAACAAAGTGAATATGAAGGGGAACGAAAGAAGACC  
 TTGTGTGGCACTCCTAACTACATAGCTCCTGAGGTGCTGAGCAAGAAGGGACACAGTTTTGAGGTGGATG  
 TGTGGTCCATTGGGTGCATCATGTATACCTTGTAGTGGGCAAGCCTCCCTTTGAGACCTCGTGCCTAAA  
 AGAGACCTACCTCCGGATCAAGAAAATGAATACAGTATCCCAAGCACATCAACCCAGTGGCCGCTCC  
 CTCATCCAGAAGATGCTTCAGACAGACCCCACTGCCCGCCCAACCATTAACGAGTTCATGATGACGAGT  
 TCTTCACTTCTGGCTACATCCCCGCCGCTCTCCCTATTACCTGCTCACCATCCCAACCAAGGTTTTCAAT  
 CGCTCCCAGCAGCCTGGACCCAGCAGGAAACCTCTCAAAGTCTCAATAAAGGTGTGGAGAACCC  
 CTGCCTGACCGTCCCCGGGAGAAAGAGGAACCGTGGTCCGGGAGACAAATGAGGCCATTGAGTGCACCC  
 TTAGTGACTTGTACAGCAGCTGACCAAGTGTCAACGCCTCCAAGCCCTCGGAGCGGGCTGGTGGGCA  
 AGAGGAGGCTGAGGATCCTGCCTGCATCCCCATCTTCTGGGTGAGCAAGTGGGTGGACTATTCGGACAAG  
 TATGGCCTTGGGTATCAGCTGTGTGACAACAGTGTGGGGTGTCTTTAATGACTCAACACGCTGATTC  
 TCTACAATGACGGGACAGCCTGCAGTACATAGAGCGTGTGGCACGGAGTCTATCTCACTGTGAGCTC  
 CCATCCCAATTCTTGATGAAGAAGATCACTCTCCTCAACTATTTCCGCAATTACATGAGTGCAGCCTG  
 CTGAAGGAGGGGCAACATCACACCCGGGAAGGGCAGGAGCTGGCCCGGCTGCCCTACCTACGAACGT  
 GGTTCGCGACACGCGAGCGCCATCATCTGCACCTCAGCAACGGCAGCGTGCAGATTAACCTTCTCCAGGA  
 CCACACCAAACTTATCTGTGCCCTGATGGCAGCGGTGACCTACATCAACGAGAAGAGGGACTTCCAA  
 ACGTACCGCTGAGCCTCTGGAGGAGTATGGCTGCTGCAAGGAGCTGGCCAGCCGCTCCGCTACGCC  
 GCACCATGGTAGACAAGCTGCTGAGCTCGCGCTCCGCCAGCAACCGCTCAAGGCCTCTAG

**Figura 4:** Secuencia codificante del gen *PLK1* para la especie *Mus musculus*.

## Tablas de homología para *INCENP* y *PLK1*

**Tabla 1:** Porcentaje de homología para los fragmentos conservados de *INCENP*.

<b>Fragmento</b>	<b>pb</b>	<b>Coincidencias</b>	<b>Homología</b>
<b>1</b>	300	254	85%
<b>2</b>	180	125	69%
<b>3</b>	180	140	78%
<b>4</b>	300	270	90%
<b>5</b>	540	445	82%

**Tabla 2:** Porcentaje de homología para los fragmentos conservados de *PLK1*.

<b>Fragmento</b>	<b>pb</b>	<b>Coincidencias</b>	<b>Homología</b>
<b>1</b>	300	264	88%
<b>2</b>	300	264	88%
<b>3</b>	360	328	91%
<b>4</b>	360	329	91%
<b>5</b>	312	286	92%